

## ELECTRONICS TECHNICIAN SERIES

Code No.	Class Title	Occ. Area	Work Area	Prob. Period	Effective Date
3966	Electronics Technician	02	029	6 mo.	05/18/92
3967	Senior Electronics Technician	02	029	6 mo.	05/18/92
3968	Principal Electronics Technician	02	029	6 mo.	05/18/92

Promotional Line: 200

### Series Narrative

Employees in this series maintain, construct, modify, and/or design electronic instruments and equipment.

### DESCRIPTIONS OF LEVELS OF WORK

#### **Level I: Electronics Technician**

**3966**

Employees at this level perform work involving the construction and maintenance of electronic instruments and equipment. They work under direct supervision from a designated supervisor.

An Electronics Technician typically--

1. lays out and constructs electronic equipment from detailed blueprints and diagrams
2. disassembles, repairs, and adjusts electronic equipment and instruments
3. with detailed technical instructions, prepares diagrams and blueprints of electronic instruments and equipment
4. operates common types of electronic instruments and equipment
5. demonstrates methods and techniques involved in the operation and maintenance of common types of electronic instruments and equipment
6. supervises others as assigned
7. performs other related duties as assigned

#### **Level II: Senior Electronics Technician**

**3967**

Employees at this level design moderately complex and construct and maintain highly complex instruments and equipment. They work under general supervision from a designated supervisor.

A Senior Electronics Technician typically--

1. designs moderately complex electronic instruments and equipment possessing a limited variety of functions and operating characteristics from instructions expressed in non-technical terms

2. selects materials, basic circuits, and components to be employed in construction and modification of electronic instruments and equipment in order to achieve maximum effective functioning
3. constructs highly complex electronic instruments and equipment from detailed blueprints and diagrams
4. operates complex electronic instruments and equipment
5. evaluates the need for and recommends the purchase of equipment, instruments, and supplies
6. demonstrates methods and techniques of design, construction, maintenance, and operation of electronic instruments and equipment
7. supervises employees in an electronics shop
8. performs other related duties as assigned

**Level III: Principal Electronics Technician****3968**

Employees at this level perform highly complex design, construction, and maintenance of electronic instruments and equipment. They work under administrative supervision from a designated supervisor.

A Principal Electronics Technician typically--

1. designs, constructs, and maintains highly complex standard electronic instruments and equipment possessing a wide variety of functions and operating characteristics from general instructions stated in non-technical terms
2. serves as consultant concerning the purchase, design, modification, construction, and operation of electronic, electrical, and, to a lesser degree, mechanical instruments and equipment
3. establishes procedures for, performs, and directs the performance of routine and preventive maintenance and troubleshooting on major electronic instruments and equipment
4. identifies, evaluates, and recommends applications of new developments in the field of electronics to problems of scientific data gathering
5. assigns, reviews, and coordinates the work of a shop in which complex electronic, electrical, and standard mechanical work is performed
6. has final technical responsibility for production in an electronics shop
7. performs other related duties as assigned

MINIMUM ACCEPTABLE QUALIFICATIONS REQUIRED FOR ENTRY INTO:**Level I: Electronics Technician****3966**

## CREDENTIALS TO BE VERIFIED BY PLACEMENT OFFICER

1. high school graduation, including courses in algebra or geometry and physics or elementary electronics
2. one year of experience performing electronic work in technical fields (such as radio or television)

## PERSONAL ATTRIBUTES NEEDED TO UNDERTAKE JOB

1. skill in the use of electrical and electronic components (such as resistors, transistors, and condensers)

**Level II: Senior Electronics Technician****3967**

## CREDENTIALS TO BE VERIFIED BY PLACEMENT OFFICER

1. high school graduation, including courses in algebra, geometry, trigonometry, elementary electricity, or electronics
2. (A) two years of university or technical training in electronics or physics  
  
or  
  
(B) four years of experience in the maintenance and construction of basic electronic and electrical instruments and equipment

## PERSONAL ATTRIBUTES NEEDED TO UNDERTAKE JOB

1. skill in the use of electronic testing equipment (such as signal generators and oscilloscopes)

**Level III: Principal Electronics Technician****3968**

## CREDENTIALS TO BE VERIFIED BY PLACEMENT OFFICER

1. high school graduation, including courses in algebra, geometry, trigonometry, elementary electricity, or electronics
2. (A) graduation from a recognized electronics technical school or university graduation, with course work in electronics or physics  
  
or

- (B) six years of experience in electronics work, three of which included the design, construction, and maintenance of complex equipment (such as polygraphs and potentiometers)

PERSONAL ATTRIBUTES NEEDED TO UNDERTAKE JOB

1. skill in the use of electronic testing equipment (such as capacity analyzers, frequency meters, and oscilloscopes)

Electronics Technician  
Senior Electronics Technician  
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